

WHAT IS CLAIMED IS:

1. A diversity antenna for a wireless local area network, comprising:

5 a circularly-polarized antenna; and
a linearly-polarized antenna,

wherein both antennas are connected to a diversity receiving circuit and one of the antennas is rotatably supported.

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2. The diversity antenna according to claim 1, wherein the circularly-polarized antenna is an antenna that intensively radiates circularly-polarized radio waves toward a specific direction and the linearly-polarized antenna is an
15 omni-directional antenna with respect to a predetermined plane, and the rotatably-supported antenna is the circularly-polarized antenna.

3. The diversity antenna according to claim 2, wherein
20 the circularly-polarized antenna is a patch antenna and the linearly-polarized antenna is a dipole antenna or a monopole antenna.

4. The diversity antenna according to claim 1, wherein a
25 polarization diversity is achieved by arranging the circularly-polarized and the linearly-polarized antennas in different positions.

5. The diversity antenna according to claim 3, wherein a shape of the patch electrode of the patch antenna is a square, a circle, or any other appropriate geometric shape.

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6. A diversity antenna for a wireless local area network, comprising:

a high-gain antenna; and

a linearly-polarized antenna,

10 wherein both antennas are connected to a diversity receiving circuit and one of the antennas is rotatably supported.

15 7. The diversity antenna according to claim 6, wherein the rotatably-supported antenna is the high-gain antenna.